Notebook Series -- Notebooks by Edison and Other Experimenters
Disc Record Book No. 23
Notebook, N-17-07-15

This notebook was used by William W. Dinwiddie, Archie D. Hoffman, and possibly other experimenters during July-August 1917 for notes on efforts to improve Edison disc records. There are occasional comments by Edison on the work performed. The entries pertain primarily to a sequence of experiments numbered from 1657E through 1749E. Included are tests of experimental lots of record blanks constructed by different methods or prepared with different ingredients. The entries generally consist of instructions by Dinwiddie or Hoffman describing the experimental records wanted, accompanied by evaluations of the test records based on their durability, thickness, and edging. One entry toward the end of the book gives a "Schedule of Operations" involved in pressing records. The front is labeled "Disc Record" and "23"; the back cover is labeled "23." The pages are unnumbered. Approximately 200 pages have been used.

O'Connor. fireman.
Connolly. fireman.

73498
Acme Co.,
MFG. STATIONERS,
15 JOHN ST.
AND
10 PLATT ST.
NEW YORK.

1657-E

65 lbs wood -
35 lbs chalk -
12 lbs Rosin - I grade
50 lbs Alcohol -
Make one drier full -
Test for surface all samples made from this powder -
Powder to be dried regular and screened regular - (1654-E) (tailings reground when they reach 50% fine)

Surface of Records printed on same nickel moulds - are scarcely any louder than regular - but seem to be a little louder, ~~[illegible]~~

7/15/17

1658-E

			Drop Test	Calipso Point
	OK	x		
OK		x	1. — 2.0	.235.1
	OK	x	2. — 2.0	232.1
OK		x	3. — 2.0	.237
	OK	x	4. — 3	.229.1
OK		x	5. — 2.0	.243
OK		x	6. — 2.0	.236
OK		x	103 lines	
OK		x		
OK		x		
OK		x		
OK		x		
OK		x		
OK		x		
OK		x		
OK		x		
OK		x		

Blanks Wrapped in Cellophane or Other

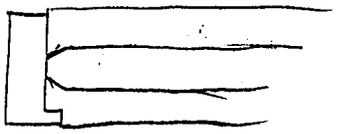
77.7%

Edging Report

All Edges 100%

on first Cut.

1658-E



Special blank mould to bevel edge of blank —
Make 48 Records send to Miller — Also report on edging.
Should harden ~~edge~~ edge slightly.

Only made 19 blanks.

Only saw 1 blank
1 Edge had a groove in it
other Edge perfect.

Varnish stucate wood.

7/15/

1659-E

OK	x	OK	x	Drop Test	Calipers	Point	
OK	x	OK	x	1. —	1	.227.1	
OK	x	OK	x	2. —	5	.224.1	
OK	x	OK	x	3. —	20	.224	
OK	x	OK	x	4. —	19	.222	
		OK	x	5. —	20	.223	
OK	x			6. —	15	.227.1	
OK	x	OK	x		8 times		
OK	x	OK	x				
OK	x	OK	x	Edging Report.			
				Edged	Re Edged	Ok	Alt
OK	x	OK	x	23	4	19	
OK	x	OK	x	4	1	3	
OK	x	OK	x	1		1	
				100%			

100%

Edged	Ok	Re Edged	Alt
56	40	13	3
13	10	3	
3	2		1
	52		4

93% Ok

1659-E

Make 100 blanks 1261 schedule from 1657-E ~~[illegible]~~ powder - varnish and print regular. Send 24 to Miller. Report on edging of all.

→ Eye Inspected
91.3% Ok out of 23 Records.
96.5% Ok out of 55 Records

7/15/12

1660-E

OK OK	x	OK OK	x	Drop Test		Caliper Point
OK OK	x	OK OK	x	1. —	20	.225
OK OK	x	OK OK	x	2. —	6	.221
OK OK	x	OK OK	x	3. —	2	.224.1
OK OK	x	OK OK	x	4. —	6	.223.1
OK OK	x	OK OK	x	5. —	20	.216.1
OK OK	x	Nail (1) Blk		6. —	3	.226.1
OK OK	x	OK OK	x		57 times	
OK OK	x	OK OK	x	Edging Report.		
OK OK	x	OK OK	x	Edged	OK.	Re Edged	Rej.
OK OK	x	OK OK	x	85	64	16	5
OK OK	x	OK OK	x	16	9	5	2
OK OK	x	OK OK	x	5	5		7
					78		
					91.7% OK.		
Bad Saw Cut							

Eye Inspected
76.4% OK out of 17 Recalls
86.1% OK out of 72 Rounds

91.6%

1660-E

old schedule ?

Make 100 blanks, (1054) Schedule (1235 blanks schedule) from 1657-E powder Varnish and print regular – Sand 24 to Mill. Report on edging of all,

7/16/

1661-E

OK OK	x	OK OK	x	
OK OK	x			
		Chipped Edge		
OK OK	x	Chipped Edge		
OK OK	x			
OK OK	x			
		OK OK	x	
OK OK	x	OK OK		
		OK OK	x	

Drop test

1 —	4	.221
2. —	4	.210.1
3. —	2	.219
4. —	4	.227
5. —	1	.213
6. —	1	.224.1

16 times

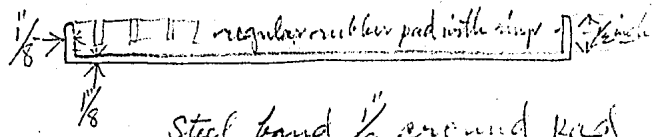
Coloring Robert.

Edged	OK.	Re Edged	Disc
32	20	8	4
8	6	2	
2	2		
	28		4

84.8 % OK

43. %

1661-E



Steel band 1/8 around pad to make edges a little harder, band is same height as pad.

Make 100 blanks regular powder.

Send 24 to Miller.

7/16/17

1662-E

	OK	x			
OK	x	OK	x		
OK	Rippled Ed				
OK	x	OK	x		
OK	x	OK	x		
OK	x	OK	x		
OK	x	OK	x		
OK	x				
OK	x				

Drop test Caliper points

1.	5	.215.1
2.	3	.214.1
3.	4	.224.1
4.	1	.218
5.	7	.219
6.	1	.217

21 turns

Edging Report

Edged	OK.	ReEdge	Disc.
40	26	11	3
11	5	5	1
5	5		4
	36		

63.6

90% OK

1662-E

Same as 1661-E except use 1657 powder.

7/18/17

1663-E

OK OK	x	OK OK	x		
OK OK	x	OK OK			
OK OK	x	OK OK			
OK OK	x				
OK OK	x				
		OK OK	x		
		OK OK			
OK OK	x				
		OK OK			
OK OK	x				

54.1

Drop test Calipes Points

1.	—	2	.219.1
2.	—	5	.232.1
3.	—	5	.225
4.	—	11	.236
5.	—	2	.232
6.	—	3	.221

28 times

Edgeing Report

Edged	OK	Re Edged	Disc
11	9	2	
2	2		
	11		

100% OK.

Edged	OK.	Re Edged	Disc.
35	21	12	2
12	9	2	1
2	1		1
	31		4

88.5% OK.

1663-E

Same as 1661 except
our 1261 schedule hold. steam 7 minutes

7/16/17.

1664-E

OK	x			Drop test Gauge Points		
OK	x	OK	x	1.	1	224.1
OK	x	OK		2.	2	.220
OK	x	OK		3.	3	.221.1
OK	x	OK		4.	4	.218
OK		OK	x	5.	6	.229
OK	x	OK	x	6.	6	.221.1
OK		OK	x		22 times	
OK		OK	x			
OK	x	OK			Edging Report	
		OK	x	Edged OK	Edged Rec	
				35	26	9
OK	x			9	6	3
OK	x			3	3	
OK	x				35	
					100% OK.	

90.4%

Eye Inspected
42.6% OK out of 52 Recd

1664-E
Make 100 blanks with 1657 powder but hold steam on 7 minutes.
Send 24 records to Mills.

1665-E

OK OK	x
OK OK	x
OK OK	x
OK OK	x
OK OK	x
OK OK	x
OK OK	x

63.6%

Drop test Caliper pow.

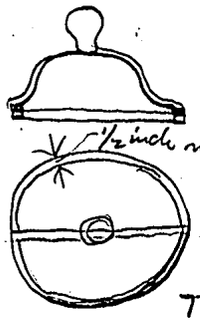
1. —
2. —
3. —
4. —
5. —
6. —

Edging Report.

Edged	OK.	Re Edged	Disc.
7	4	3	
3	1	2	
2	1		1
	6		1

85.7% OK.

1665-E



Make 12 blanks press this ring down in loading hopper then put more powder in and strike off again.

This was pressed down 5 times on each blank to pack the powder on the edges. —

7/19/17

1666-E

OK	x	OK	x	Drop Test Caliper Position			
OK	x	OK	x	1.	—	10	.226.1
		OK	x	2.	—	20	.214
OK	x	OK	x	3.	—	20	.214.1
OK	x	OK	x	4.	—	4	.236
OK	x	OK	x	5.	—	10	.224.1
OK	x	OK	x	6.	—	1	.212
OK	x	OK	x	78 times			
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x	Inspection Report			
OK	x	OK	x	Inspected 3,912			
OK	x	OK	x	and of these 3,124 were			
OK	x	OK	x	OK			
OK	x	OK	x	81.2% OK			
OK	x						

100%

1666-E

60 lbs wood
40 lbs chalk
12 lbs Rosin I grade
50 lbs alcohol (2 lbs gas black)

Make two driers full—
Mould varnish and print regular— save powder enough for 500 blanks for experiments

Mr. Edison listened to six prints made on nickel moulds in comparison with six prints made on the same moulds with regular powder and could not detect any difference in surface.—

Edison Report.

Edged	OK.	Disc
771	739	32

95.8% OK.

7/15/

1667-E

OK	x	OK	x		Drop Test	Calipers Points	
OK	x	OK	x		1. — 1	.218.1	
OK	x	OK	x		2. — 10	.208	
OK	x	OK	x		3. — 3	.218	
OK	x	OK	x		4. — 20	.220	
OK	x	OK	x		5. — 5	.212.1	
OK	x	OK	x		6. — 14	.221	
OK	x	OK	x		53		
OK	x	OK	x				
OK	x	OK	x				
OK	x						
OK	x						
OK	x						

100%

no printing

3 Hands made all the printing forms & tied

Edging Report

Edgd.	OK.	REdgd	Disc
45.	25	13	7
13	8	4	1
4	4		
	37		8

82.2% OK.

Eye Inspection
84.9% OK out of 53 Runs

1667-E
Make 100 blanks with only 500 pounds pressure on the rubber press - regular in every other way - They will be thinner
Send 24 to Miller

[21]

7/17/17

1668-E

	Drop Test	Calipus Point
1.	16	.2251
x 2.	9	.209
3.	1	.223
4.	14	.226
5.	6	.2271
6.	9	.222
	55 times	

Edging Report

	Edged	OK.	Re Edged	Disc
	49	30	19	
x	19	6	10	3
y	10	7		3
		43		6

87 7% OK.

29.1%

1668-E

Make 100 blanks like 1661 but leave out the thin rubber pad.

Send 24 to Miller —

Report on inspection and edging of all

7/17/17

1669-E

1	OK	x	Drop test	Calipso Points
OK	x	x	1. — 20	.243.1
OK	x	x	2. — 11	.227.1
OK	x	x	3. — 3	.248.1.
OK	x		4. — 1	.223.1
OK	x		5. — 20	.235.1
OK	x		6. — 5	.241
OK	x		60 times	
OK	x			
OK	x			
OK	x			
OK	x			
OK	x			
OK	x			

93.7 % on punching

8 Blanks marked with connecting [illegible]

Edging Report.

Edged	O.K.	Re Edged	Disc
54	19	31	4
33	4	18	9
11	6		12
	29		25

53.7% OK.

1669-E

Make 100 blanks — after loading press 5 times with 1572 tool, then leave out the thin rubber pad.

send 24 to Miller

Report on inspection and edging of all

7/17/17

1670-E

Drop	Col	Calif. bonds
1.	20	.223
2.	20	.248.1
3.	1	.228
4.	1	.233
5.	4	.220.1
6.	10	.215.1
	56 lines	

Edging Report

Edged	OK'd	Re Edged	Dis
33	18	15	
15	7	7	1
7	3		4
	38		5

84.8% OK

Shade [illegible] from [illegible]

[illegible] on [illegible]

1670-E

Same as 1669-E except use the 1661 pad—

Send 24 to Trilla.

Report on inspection and aging of all

7/17/15

1671-E

OK OK	
FERNS	FERNS
OK OK	OK OK
OK OK	
FERNS	
OK OK	

29 4% no printing

7 Heavens, Gradise, Bar Necessity, Hand Dance

Prof. Test	Calipic Points
1. 30	.230
2. 1	.222
3. 3	.215.1
4. 6	.212
5. 10	.255
6. 8	.224
48 turns	

Edging Report.

Edged	OK	Re Edged	Disc
22	14	6	2
6	6	4	
4	2		2
	18		4

81.8% OK.

1671-E

Same as 1668-E except used 500 pounds pressure on packing press. Send 24 to Mills

Report on inspection and edging of dies.

7/17/15

1672-E

OK OK	x	OK OK	x		
		OK OK	x		
		OK OK			
OK OK	x	OK OK	x		
OK OK	x				
OK OK	x				
OK OK	x				
OK OK	x				

	Wrap Test	Weight Paid
1.	3	.222
2.	1	.223.1
3.	10	.214.1
4.	20	.219.1
5.	8	.221
6.	14	.216.1
	56 time	

Edging Report

Edged	OK	Re Edged	Disc.
20	15	3	2
3	1	2	
2	2		
	18		2

90% OK

1672-E

Same as 1668-E but press steam on press for 7 minutes.
Make 100 blanks —
Send 24 to Mills.
Report on inspection and edging of all,

C73

7/17/12

1673-E

OK	x	OK	x		Drop test		Calipes Points
OK	x	OK	x	1	—	18	.245
OK	x	OK	x	2	—	20	.239.1
OK	x	OK	x	3	—	9	.252
OK	x	OK	x	4	—	10	.237.1
OK	x	OK	x	5	—	20	.247
OK	x	OK	x	6	—	20	.244
						97	
		OK	x				
OK	x	OK	x		Edging Report.		
OK	x				Edged	OK.	Re Edge	Disc
		OK	x		47	27	18	2
OK	x				18	11	7	
OK	x	OK	x		47	6		1
						44		3

93.6% OK.

Eye Inspection
73¾% OK out of 64 Reams
79.1% OK out of 24 Reams

1673-E

Repeat 1637 and use only 500 pounds pressure on the packing press. Make 100 Blanks — Send 24 to Mills.

Report on inspection and edging of all.

7/17/17

1674-E

OK	x	OK	x				
OK	x	OK	x				
OK	x						
OK	x	OK	x				
OK	x						
OK	x	OK	x				
		OK	x				
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x				

Prof. Set — Surface Point

1.	6	.243.1
2.	3	.225.1
3.	8	.232.1
4.	2	.238
5.	2	.257
6.	2	.237

23 times

Edging Robot

Edge	OK	Stop	Disc.
15.	5	10	
10.	7		3
	12		3

80% OK

169

Separating

Flaw: cracked

Edge [illegible]

1674-E

012 Thick Tin, Aluminum

special blank mould to make more pressure on edge

Make 48 blanks - send all to Willy -

7/17/17

1675-E

OK	OK		Drop test	Calipers Points
OK	OK	1.	20	.225
OK	OK	2.	3	.215.1
OK	OK	3.	3	.227.1
OK	OK	4.	1	.232
OK	OK	5.	20	.235
OK	OK	6.	18	.236.1
OK	OK		65 lines	
OK	OK			
OK	OK		Edging Report.	
OK	OK		Edged	OK.	Re Edged	Dire
OK			67	46	20	1
OK			20	8	10	2
OK			10	6		4
OK				60		7

100% on punching

89.5% OK.

Eye Inspection

2 blanks cracked after coming from lines

92.8% OK out of 14 Reams

93% OK out of 72 Reams

1675-E

Make 100 blanks 1666 powder on 1667 schedule for punching press

7-17-13 — (1675 1/2-E)

Hydraulic Packing press pressure changed from 700 pounds to 640 pounds - 1 Pin

7/18/17

1676-E

			Drop test	Calipers point
OK OK	x		1. — 3	.221.1
OK OK	x		2. — 1	.218
			3. — 6	.225
			4. — 11	.226.1
OK OK			5. — 3	.227.1
			6. — 2	.222
			26 times	
OK OK				
OK OK	x			
OK OK				
OK OK				
OK OK	x			
OK OK	x			

Edging Report

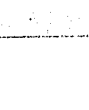
Edged	OK	Edge	Miss
43	31	11	1
11	5	5	1
5	5		—
	41		

95.3%

37.5%

Eye Inspection
52.4% Okay of 82 Records

1676-E
Same as 1661-E except that 3/16 holes are bored opposite cuts in pond thru ring —



Make 100 blanks
send 24 records to Miller

7/18/17

1677-E

OK	x						
OK	x	OK	x				
OK	x						
OK	x	OK	x				
OK	x						
OK	x	OK	x				
OK	x	OK	x				
		OK	x				
		OK	x				
OK	x						
OK	x	OK	x				
		OK	x				
OK	x						

	Drop Test	Caliper Point
1.	5	.220.1
2.	5	.223.1
3.	17	.227.1
4.	19	.230.1
5.	7	.221
6.	3	.219.1
	56 tubes	

Edging Report

Edged	OK	Other	Misc
48	31	15	2
15	10	4	1
4	3		1
	44		4

91.4%

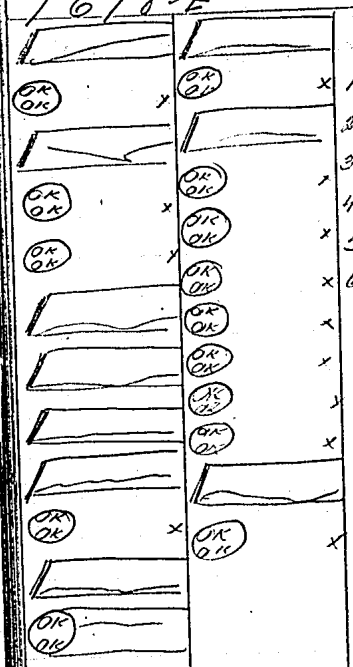
75%

1677-E
Same as 1676 except that 5/8 rubber pad is used —

Eye Inspection
59.2% OK out of 61 tubes

7/18/17

1678-E



Drop test	Calibre Rints
1. — 1.6	.227
2. — 4	.216.1
3. — 10	.222.1
4. — 20	.212
5. — 3	.220
6. — .1	.219.1

54 turns

Edging Report

Edged	O.K.	Re Edge.	Misc.
60	44	15	1
15	10	4	1
4	4		
	58		2

96.6% OK.

Eye Inspection
72½% OK out of 53 Records

1678-E
Same as 1676-E except use 1666 powder

1679-E

OK	x	OK	x				
OK	x			1.	4		.220
				2.	10		.213
OK	x	OK	x				
				3.	16		[illegible]
OK	x			4.	3		.219
OK	x	OK	x	5.	2		.223
OK	x	OK	x	6.	4		.214
					39 tests		
OK	x						
OK	x						
OK	x						
OK	x	OK	x				
OK	x						
				Edging Defects			
				Edged	Ok.	Wrk.	Wrk.
OK	x	OK	x	50	33	15	2
		OK	x	15	10	5	
				5	5		
					48		

75-%

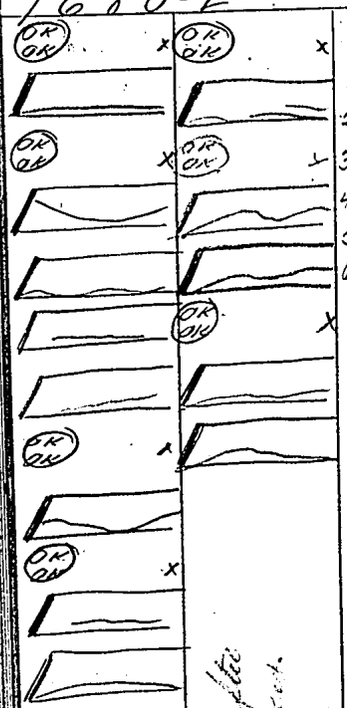
96.3 Ok.

Eye Inspected of
76.9% Ok'ed of 65 Reams

1679-E
Same as 1677 except new
1666 powder —

7/20/17.

1680-E



	Drop Test	Caliper point
1. —	11	.215
2. —	20	.212.1
3. —	20	.206
4. —	5	.215.1
5. —	13	.216
6. —	5	.220
	74 times	

444 inspected
185 OK
259 Discards (222 parallel breaks)

1680-E

Make up sample of 2 bales wood flour from Union Wood flour Co.
Make regular 1666-E

7/20/17

1681

OK OK	x	OK OK	x	Drop Test / Califies Points
				1. — 5 .228.1
				2. — 11 .225.1
				3. — 1 .237.1
				4. — 4 .221.1
		OK OK	x	5. — 2 .226
				6. — 7 .231
				30 turns
OK OK	x	moisture Spot		
moisture spot		OK OK	x	Eye Inspection
		OK OK	x	36.7% Okout of 81 6 Rem
		OK OK	x	

30.4 in punctures

- 1681-E

Make up sample of wood flour from Liquund Chem. Co.

Matrix regular 1666-E

7/19/12

1612-E

1.	20		.216
2.	20		.213
3.	20		.213.1
4.	20		.224.1
5.	20		.211.1
6.	20		.214
	13	10	3
	3	1	1
		11	1

100%

41%

91.6

Dilutoddic
Account for this
on any theory
whatever —
E

1682-E Duplicate 7/20/12

1666-E Order

75%

7/20/17

1683-E

Drop test	Calipers	Points
1.	20	.214
2.	20	.205.5
3.	16	.216.5
4.	20	.212
5.	20	.210.5
6.	20	.232
	116 times	

91.5%

Edging Report

Edgeit OK	Re Edged	Disc.
63	55	
8	8	
63		

100% OK.

Eye Inspection

58.1% Ok out of 58 Reams

1683-E

60 lbs wood
40 lbs chalk
13 lbs Rosin I Grade
50 lbs Alcohol
2 lbs gas black
Dry time 1508
Mould varnish and print regular.
Save 100 blanks for 1686

1683-E Dry time 7/25/17

62.5

7/20/17

1684-E

OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK	x	OK OK
OK OK		OK OK

87.5%

Drop test	Caliper	Point
1.	20	.214
2.	1	.218
3.	12	.224
4.	12	.214.5
5.	20	.225.5
6.	20	.210.5
	85 times	

Edging Report

Edged	OK	ReEdged	Disc
26	18	5	3
5	2	2	1
2	1		1
	21		5

80.7 OK

{½ [illegible] ½ [illegible]}

1684-E
Same as 1666-E except dried on 1508 Schedule -
Mould, varnish and print regular -
Save 100 blanks for 1657-E

7/29/12

1685-E

OK OK	x				
OK OK					
OK OK					
OK OK	x	OK OK			
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x				

45 %

Drop Test Calip. Point

1. — 18 .206.1
2. — 10 .213
3. — 20 .209.1
4. — 3 .208.1
5. — 7 .219.1
6. — ~~10~~ .214

68 Turns

Edging Report.

Edged 100 % OK

Eye Inspection

48.3 % OK and 51.59 Recut

1685-E

Make 100 (1666-E) regular blanks except hold steam on press 7 minutes instead of 6½ minutes

1686-E

Drop test	Caliper	Points
1.	20	.220
2.	20	.216
3.	20	.222.5
4.	13	.214.5
5.	20	.212.5
6.	20	.217.5

113 Turns

Edging Report

Edged	O.K.	Re Edged	Disc
66	58	7	1
7	5		2
	63		3

(83.%)

95.5% OK

Eye Inspection

40.5% OK out of 348 Rooms

63.2% OK out of 68 Rooms

Edging Report

Edged	O.K.	Re Edged	Disc
138	130	6	2
6	6		
	136		

98.5% OK.

1686-E

Make 100 blanks 1683 powder but keep steam on press 7 min instead of six minutes.

1687-E

OK OK	x	OK OK	x	Drop test.		Caliper Point	
OK OK	x	OK OK	x	1.	20	.223	
OK OK	x	OK OK	x	2.	20	.200.5	
OK OK	x	OK OK	x	3.	20	.214.5	
OK OK	x	OK OK	x	4.	2	.216.5	
OK OK	x	OK OK	x	5.	20	.217	
OK OK	x	OK OK	x	6.	20	.211.5	
OK OK	x				102 Times		
OK OK	x	FERUS					
OK OK	x	OK OK	x	Edging Rebent			
OK OK	x	OK OK	x	Edged	OK	ReEdge	Disc
OK OK	x	OK OK	x	71	51	18	2
OK OK	x	OK OK	x	18	13	5	
OK OK	x	OK OK	x	5	2		3
OK OK	x	OK OK	x		66		5
OK OK	x	OK OK	x				
OK OK	x	OK OK	x		93% OK		
		96.%		Eye Inspection			
				91% Okad of 78 Recorde			

1687-E
Make 100 blanks from
1684-E Powder Test
hold blank in press for 7 minutes
instead of 1 hr

1688-E

				Drop test	Caliper Points
OK OK	x	OK OK	x	1. — 11	.215
OK OK		OK OK	x	2. — 20	.222
OK OK	x	OK OK		3. — 11	.220.5
OK OK	x	OK OK	x	4. — 20	.215
OK OK		OK OK	x	5. — 20	.214.5
	x	OK OK	x	6. — 17	.227
		OK OK	x	99 times	
OK OK	x	OK OK	x		
OK OK	x				
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		

66. %

Edging Defect

Edgeil	O.K.	Rejects	Edge Dirt
3.5	27	5	
8	6	2	
2	2		
35			

100% O.K.

Eye Inspected 11 23. Instead of 366 Rooms

1688-E

Make 100 blanks 1683 powder but keep steam on press 5 minutes instead of 6 minutes.

7/30/17

1689-E

Drop test	Calipers Points
1. 8	.211
2. 8	.221
3. 18	.2281
4. 20	.312.1
5. 20	.199.1
6. 20	.212
94	

Edging Report

Edged	OK.	Re Edged	Disc
41	32	36	3
36	20	16.	
16	12		6
	62		9

87.3% OK

Edged	OK.	Re Edged	Disc
50	44	5	1.
5	5		
	49		1

98% %

9 to 6

1689-E

Make 100 blanks 1666-E powder but keep steam on press 5 minutes instead of 6 minutes.

Eye Inspection

81.5% OK out of 65 Records

37% OK out of 806. Records. Made 29

1689-E Duplicate 7/24/17

See also 1691

7/23/17.

1690-E

1 ab

1 ab

1 ab

1690-E

Regular powder 1666 with 12% water -
Used regular loading press -
" " press for pressing.
Plates hot to start pressure 600 lbs 1/2 min
before turning off steam, water on
600 lbs pressure until cold.
Baked in oven at 230°

No 1	for 1 hour	.065	% loss in lot.	
2	1 1/2	.078	" " "	
3	2	.088	" " "	Blistered N.G.
4	2 1/2	.117	" " "	
5	3	.112	" " "	
6	4	.129	" " "	

7/23/17

1691-E

Bad Star Spot	OK OK	x	Drop test		Cubic cm
			1. —	20	198.1
FERNS	OK OK	x	2. —	3	210
	OK OK	x	3. —	14	222
	OK OK	x	4. —	10	224.1
FERNS	OK OK	x	5. —	1	199.1
OK OK	OK OK	x	6. —	20	213.1
OK OK	FERNS	x		6 times	
OK OK	OK OK	x			
OK OK			Edging Report		
	OK OK	x	Edged OK.	Re Edged	Disc.
			25	19	6
OK OK	OK OK	x		76.5% OK.	
OK OK	OK OK	1			
OK OK			Eye Inspection		
			37.5% Okant of 48 Records		

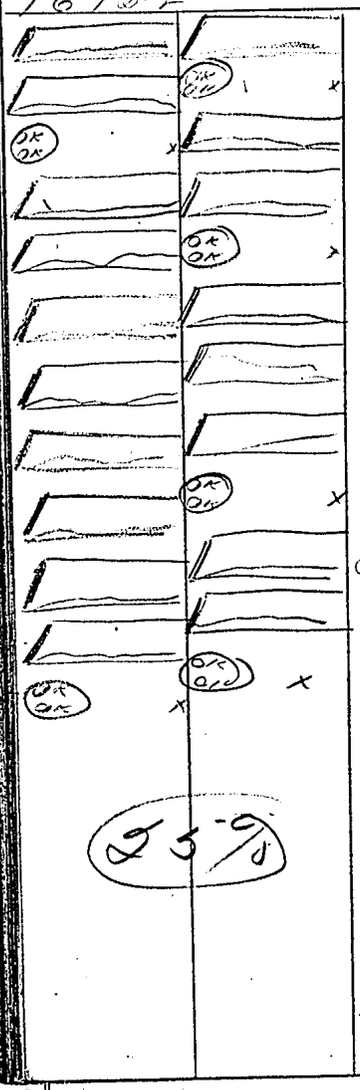
66.6

1691-E

Make 100 blanks 1666 powder regular all thru except hold steam on only five minutes instead of six minutes, this is a duplicate of 1659-E—

7/24/11

1693-E



Edgewise Report-

Edge	OK	Edge	Miss
13	10	1	2
1	1		
	11		

84.6% OK.

Eye Inspection
17.5% OK and 2.5% Rejects

1692-E

Same as 1666 except use 3/4" moulded pad - Send 24 to Miller - Know pads as long as pad is OK.

Pad bulged out above mould - require the 1661 holder -

1/25/17

1693-E

				Drop test	Coefficient Points
OK OK	x	OK OK	x		
				1. — 3	.203
				— 17	210.1
OK OK	x	OK OK	x		
				3. — 3	215.1
OK OK	x	OK OK	x		
				4. — 1	.207
OK OK	x			5 — 20	.219.1
				6. — 20	.218.1
OK OK	x			64 times	
OK OK	x				
OK OK	x				
OK OK	x				
OK OK	x	OK OK	x		
OK OK	x				

5-8.23

1693-E

3/4 pad special moulded with 9/16 deep grooves same pattern as regular set in same holder as 1676.

Make 100 blanks —

7/24/17

1694-E

Low Spot	FERNS		Mech test
Bad Low Spot		FERN	1 — 3
OK OK	OK OK x		2 — 10
	OK OK Lines 1	Low Spot	3 — 4
Low Spot	OK OK x	Bad Low Spot	4 — 1
Low Spot	OK OK x	Low Spot	5 — 3
FERN	OK OK x	OK OK Low Spot	6 — 1
OK OK x	Low Spot	FERN	2 2 times
		OK OK Low Spot	Calipers Pounds
	OK OK x	Low Spot	221 — 216.1
OK OK x	OK OK x		219.1 — 220
FERNS			226.1 — 223
Moisture Spot	OK OK x		
		OK OK x	

38.8°

1694-E

Print ~~one hundred records~~ (96) regular except operation (6) when mercury reaches line on thermometer (200° F) wait three minutes and then bring pressure up very slowly and leave valve open. (Only 36 printed)

See full schedule in back of this book.

7/24/17

1695-E

				Drop test	Critical Pressure
OK OK	X	OK OK	X		
		OK OK	X	1 — 20	.215.1
		OK OK	X	2 — 20	.219
		OK OK		3 — 1	.224
		OK OK	X	4 — 1	231.1
OK OK	X			5 — 10	.228.1
				6 — 15	.231
		OK OK	X	70 lines	
		OK OK	X		
OK OK	X	OK OK	X		
OK OK	X				
		Diaphragm Cap			
OK OK	X	OK OK			
OK OK	X				

583°

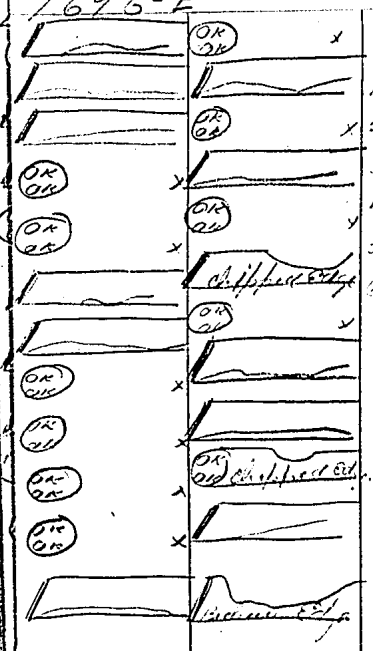
1695-E

Print 24 records regular except operation (6) When mercury reaches 180° put pressure on full, then time the next operation from the time the thermometer reaches the line (200° F) as usual. Send all to Miller.

See schedule in back of this book.

7/25/17

1696-E



	Drops	Boiling Point
1. —	6	.229
2. —	20	213.1
3. —	9	241.1
4. —	3	.232.1
5. —	20	.227
6. —	18	.223

76 times

1696-E

Make 100 blanks 1666-E except hold steam on press only 4 minutes instead of six minutes.

[81]

7/26/17

1697-E

			Drop test	Calipsofoints
	OK OK	x		
	OK OK	x	1. — 20	.224.1
			2. — 20	.218.1
OK OK		x	3. — 20	.217
OK OK		x	4. — 20	.225.1
	OK OK	x	5. — 20	.229.1
OK OK		x	6. — 20	.215
			120 times	
OK OK	OK OK	x	x	
	OK OK		x	

40.9%

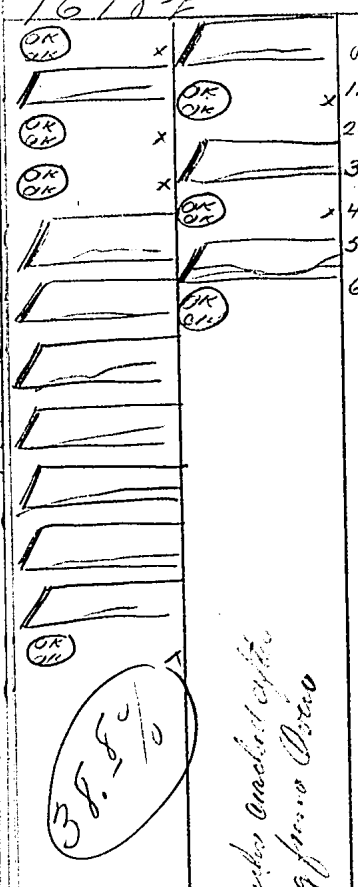
2 Planks another rejects coming from Grand

1697-E

Repeat 1684-E test use instead of ½ Empost and ½ Norway wood ½ Garrigas and ½ Norway-

7/25/17

1698-E



	Drop test	Caliper Points
1.	10	.216
2.	20	.223.1
3.	3	.215
4.	8	.223
5.	3	.213.1
6.	7	.219
	51 tests	

1698-E Regular 1666-E powder

Oil the blank mould ring with machine oil, wipe it on with a rag. Make 24 blanks — Send all to mill.

7/25/11

1699-E

		Drop test	Califico Points
		1. — 20	221.1
	Minutiae Spot	2. — 12	216.1
		3. — 20	.226
		4. — 20	.214
		5. — 17	.220
		6. — 13	.218
		92 times	

26%

3 Plants made of [illegible] containing [illegible]

1699-E Regular 1666-E Powder -
Treat blank mould ring with "Tanning" solution
Make 24 blanks - send all to mills.

7/25/1

1700-E

	OK OK	x	Drop test	Calibre Pounds
OK OK		x	1. — 20	.221
			2. — 20	.225.1
OK OK		x	FFRAAS 3. — 10	.234
			4. — 3	.227.1
			5. — 1	.216.1
			6. — 1	.218.1
			4 Strikes	
OK OK		x		
OK OK		x		
FFRAS				
OK OK		x		
40%				

2 Flash ignition

1700-E Regular 1666-E Powder — Same as 1698-E but use Kubrica instead of oil — only received 7 pounds on this wheelwheel

7/25/17

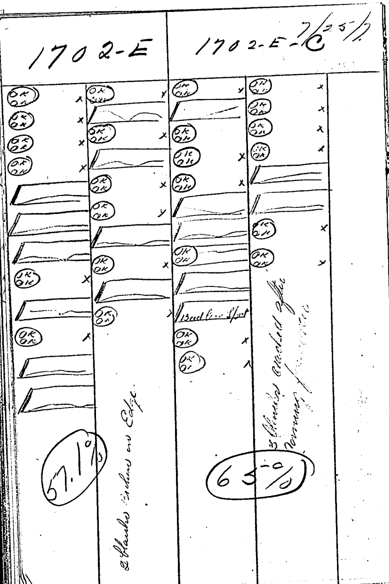
1701-E-1	1701-E-2
OK OK x	ark 1 blk
moisture spot	OK OK x
OK OK	
ark 1 blk	OK OK x
OK OK x	
ark 1 blk	
ark 1 blk	OK OK x
25%	25%

1701-E-~~and~~ 2 req 1666-E

(1) Make 12 regular blanks between 1698 and 1699 -

(2) Make 12 regular blanks between 1699 and 1700 -

To check — send all to mills.



1702-E
24 blanks made with 1637 tool operated by machine 1/4 inch vertical stroke adjusted 1/4 inch below top of adapter ring – 1605 powder
1702-E-C 24 blanks made regular at the same time with the same powder.
Send all 48 to Miller for inspection

1703-E		1703-E-C 7/27/[illegible]	
	OK OK x		OK OK x
	OK OK x		
	OK OK x		
OK OK x		OK OK x	OK OK x
OK OK x		OK OK x	OK OK x
OK OK x			OK OK x
OK OK x		OK OK	OK OK x
OK OK x	OK OK x		
OK OK			
45.4	1 Hands cracked.	37.4	1 Hands cracked at after commencing firing

1703-E Same as 1703-E except use 1666-E powder —
1703-E-C- Click on same powder — Send all to Dublin for inspection.

7/26/10

1704-C

1704-E

Mark 1 Blk

OK OK

37.5%

4 blanks discarded for Edge Defs

50%

2 blanks [illegible] for Edge Defs

1704-E

24 blanks made on same machine as 1703-E but shoulder turned as [illegible] 3/8 in below top of adjusting ring 1666-E powder.

1704-E-C

24 blanks same powder regular way to check.

Edging Report 1704-E

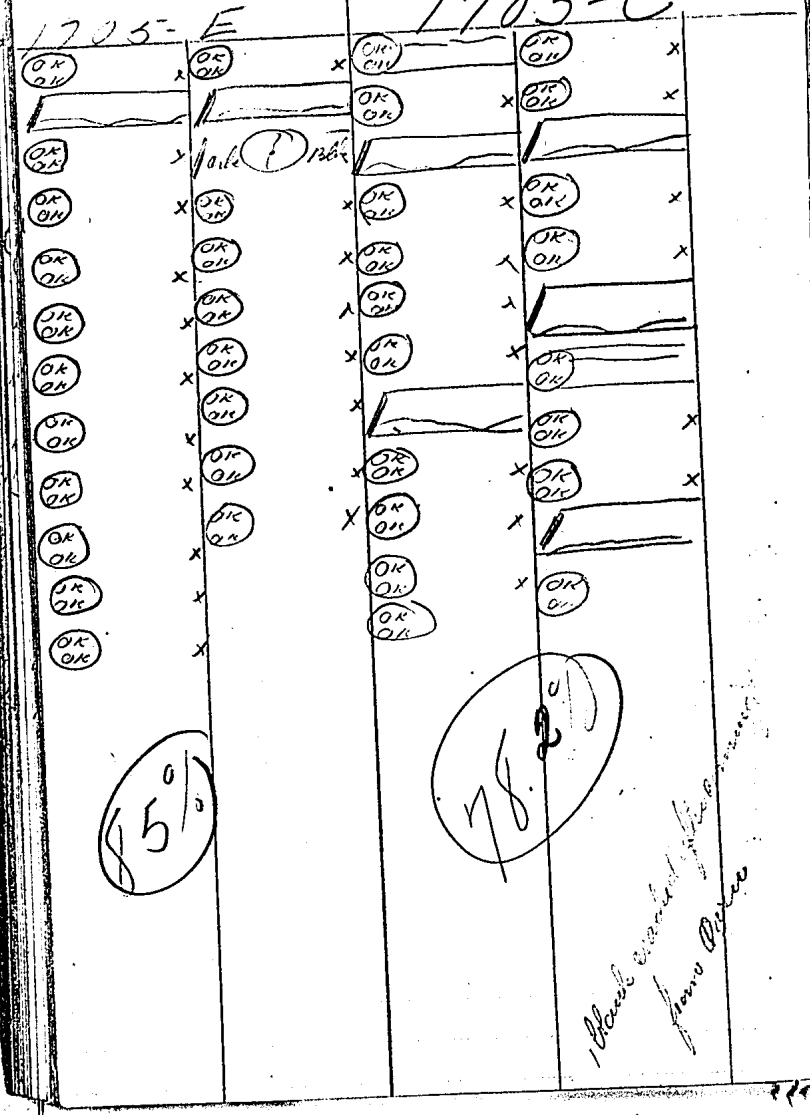
Edge	OK	Edge Defs	Mars
16	6	3	1
3	3		
	9		

95 %

7/26/17

1705-E

1705-C

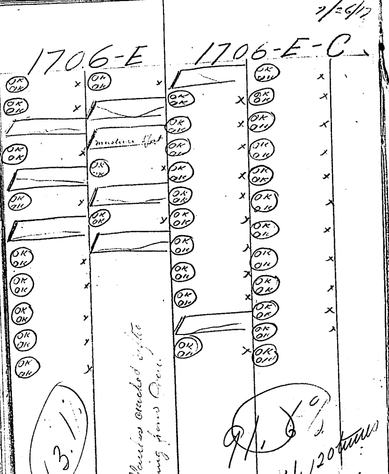


1705-E

Same as 1704-E except that the bagging is not loaded in the hopper, but overflow out and dump into the barrel. Weighed out 545 grammes each time.

1705-E-C

Regular to Checks made out of the same grades.



1706-E

Same as 1705-E except that the powder is weighed out in two lots of 27 1/2 grammes each and each lot is tamped separately.

1706-E-C is made regular at the same time for check –

The drop test is pretty sure evidence that the two lots were mixed,

Also positive proof is that the 1706-E was abnormally thick

[illegible]

7/26/17

1707-E

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

JK OK x

58 %

58 %

No Drop test

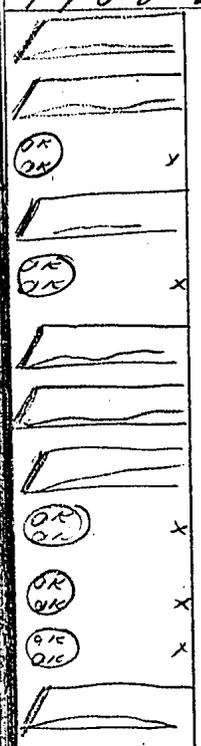
Edging Report

Edged	Ok	Re Edged	Disc
6	5		1

533°, Ok

1707-E Same as 1705-E except that tool is adjusted 1/4" below addapter ring and hydraulic press operation is omitted entirely. 12 blanks made —

1708-E



No Proof Test
Edging Report.
Edged OK ReEdged Mix
5 5
100%

1708-E

Same as 1707 except that tool is started adjusted 5/8 inch below top of adaptor ring and as normal pressure is applied it is forced up to 1/2 inch below top of adaptor ring.

7/26/17

1709-E

OK OK	x	[illegible]		
OK OK	x	OK OK [illegible] 3		
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	[illegible]	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK	x	
Bad [illegible]		OK OK	x	
OK OK	x	OK OK	x	
OK OK	x	OK OK		
OK OK	x			

(13.3%)

Drop Test		Caliper Point
1	5	.229.1
2	6	.226.1
3	20	.212
4	10	.223.1
5	20	.219.1
6	20	.227

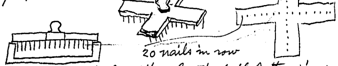
8 Times

Edging Report

Edged	OK	Re Edged	Disc
9	5	3	1
3	2	1	
1			1
	7		2

77%

1709-E



Three tools with 3 lengths of nails, Bottom view

After strike off in hopper - regular way,
use first the tool with the long nails
then " " " " medium "
then " " " " short "
Turn each around in the powder
three times and lift out,
Then place thin rubber pad on
and proceed in regular way
Make 24 blanks

7/26/17

1710-E

OK	OK		Drop test	Melting Point
	OK		1. — 20	.221
OK			2. — 20	.226
OK			3. — 20	.232
			4. — 10	.216
	OK		5. — 20	.230.1
OK			6. — 20	.223
OK			110 times	
OK				
OK			Edging Report	
OK			Edged OK / Re Edged / Discs	
OK			6 4 2	
OK			2 0	
OK			6	
OK			100% OK	
OK				
	OK			

58.30

1710-E

Make ~~[illegible]~~ 48 regular 1666-E Blanks except take the blanks out of the press hot! so that you can just bear your hand on the moulds.

7/2-6/17

1711-E

29.1%

Edging Report

Edged Ok.	Edged Ok.	Edged Ok.
6	4	2
3	2	

100%

1711-E

Print 48 records on regular 1666 Blanks but put on the high pressure as slowly as possible.

Send all to mills -

C(1)

7/23/12

1712-E

Drop Test	Califico Penn
1. — 14	.184
2. — 20	.196
3. — 20	.203
4. — 20	.191
5. — 20	.188
6. — 20	.196
114 times	

Edgers Report

Edged	OK	Re Edged	Wrk
19	17		3

89 4/9

91.6%

1712-E

Put 100 pounds of regular 1666-E powder in small Day mixer and add one pounds Straw oil. Mix ½ hour — Make up regular — Varnish and print regular

Blades show a lot of little lumps scatter all over

7/28/17

1713-E

	OK	x				
OK	x					
		OK	x			
OK	x	OK	x			
		OK				
OK	x	OK	x			
		OK	x			
OK	x	OK	x			
OK	x					
		OK	x			
OK	x					
OK	x					

Drop test		Caliper Point
1.	20	.212
2.	20	.206
3.	4	.221
4.	20	.215
5.	20	.206
6.	20	.214
	104 times	

Edging Report

Edged	OK.	Re Edged	Disc
11	6	4	1
4	2	2	
2			2
	8		3

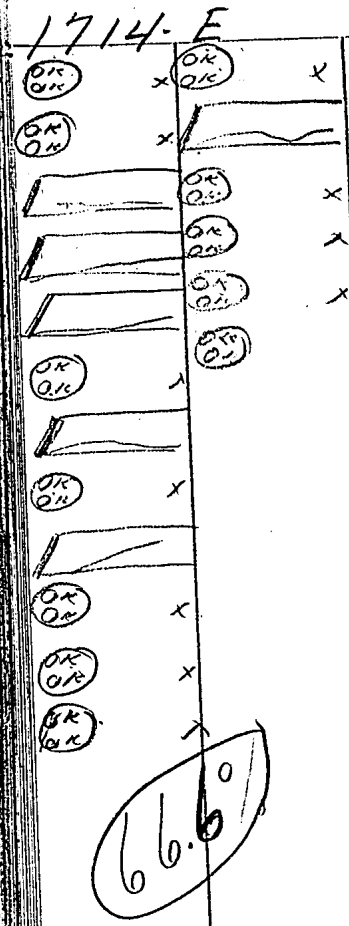
72.8% OK

62.5%

1713-E
Same as 1712-E except use 2 pounds water instead of the straw oil.

7/27/11

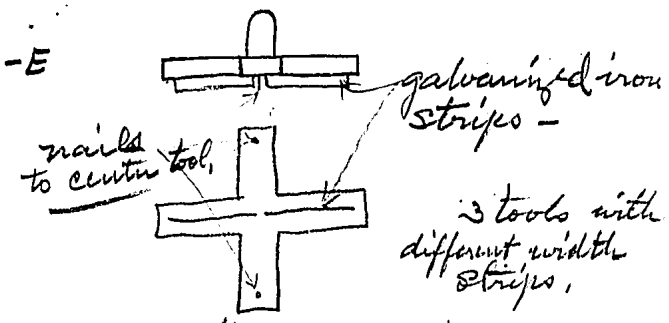
1714-E



Drop test	Calipers Points
1. — 20.	.209
2. — 2	.210
3. — 14	.201
4. — 3	.221
5. — 20	.192
6. — 20	.206

79 tests

1714-E



Use exactly as tools in 1709-E

Only made 18 tools.

7/27/17

1715-E

OK OK	x	OK OK	x		Drop test		Calibrated Points
OK OK	x	OK OK	x	1	20		.210
		OK OK	x	2	20		.189
OK OK	x			3	20		.210
		OK OK	x	4	20		.203
OK OK	x			5	20		.202
				6	20		.209
					120 strikes		
OK OK	x						
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x						
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				

83.3/0

1715-E

Same as 1712-E except use one pound Rosin Oil instead of Straw Oil—

Make 24 blanks send to Miller—

Blanks show little Cracks scattered all over.

7/27/17

1716-E

OK	x	OK	x	Drop	test	Califico	Counts
OK	x	OK	x	1.	20		.210
OK	x			2.	20		.221
				3.	20		.225
OK	x			4.	20		.221
OK	x	OK	x	5.	20		.207
		OK	x	6.	20		.215
OK	x	OK	x		120 times		
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x				
OK	x	OK	x				
OK	x						

91.6 0 16

1716-E

Same as 1712-E except use one pound Glycerin instead of Straw oil —

Make 24 blanks send Records to Miller —

Blanks [illegible] cell over Records M. C. on account of spots.

7/27/17.

1717-E

		Drop test	Calyx Point
OK OK x	OK OK x	1. — 20	.204
		2. — 20	.203
OK OK x	OK OK x	3. — 20	.209
OK OK x		4. — 20	.209
OK OK x	OK OK x	5. — 20	.205
OK OK x	OK OK x	6. — 20	.209
OK OK x	OK OK x	120	
OK OK x	OK OK x		
OK OK x			
OK OK x	OK OK x		
OK OK x	OK OK x		
	OK OK x		

12.6

1717-E
Same as 1712-E except use one pound Kerosene Oil instead of the straw oil.

7/27/17

1718-E

				Drop test	Caliper Point
OK OK	x			1. — 20	.210
		OK OK	x	2. — 20	.203
				3. — 20	.210
OK OK	x	OK OK	x	4. — 20	.200
				5. — 20	.203
				6. — 20	.209
				120 times	
OK OK	x	OK OK	x		
OK OK	x				
Bad Sample					
OK OK	x	OK OK	x		
		OK OK	x		
OK OK	x	OK OK			

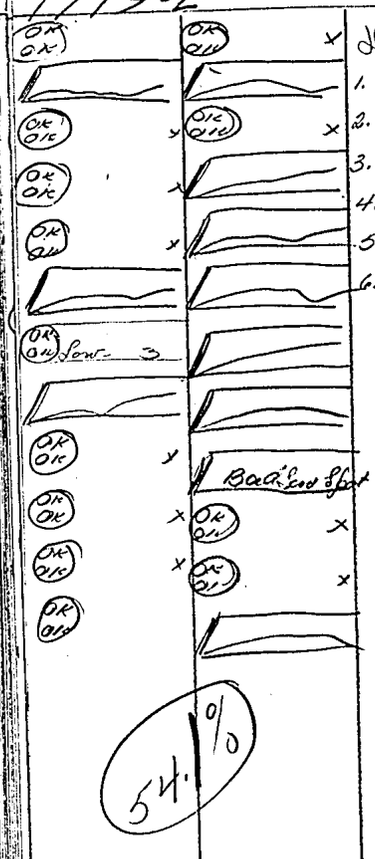
1718-E

Same as 1712, except use one pound Calcium chloride (approx) in ~~[illegible]~~ solution in water —

Make up 24 blanks — send records to Miller,

7/27/17

1719-E



	Drafo-test	Calif. Co. Cem.
1.	20	.236
2.	20	.237
3.	20	.244
4.	20	.235
5.	20	.241
6.	20	.229
	120	

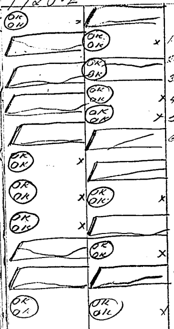
1719-E

Same as 1712 except use one pound Sal Ammoniac dissolved in water.

Make up 24 blanks - send records to Miller.

7/23/17.

1720-E



	Drop test	Caliper Points
1.	20	.226
2.	20	.218
3.	20	.212
4.	20	.218
5.	20	.212
6.	20	.213
	120 times	

Edging Report

Edged	OK.	Re Edged	Misc
10	9		1
	1	1	
	10		

100% OK

50%

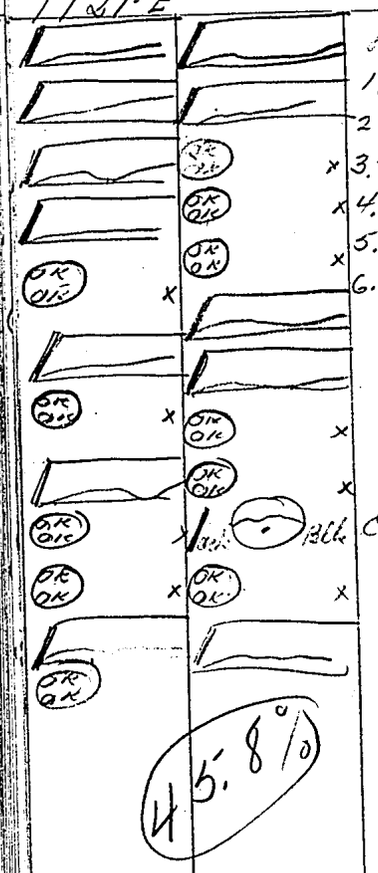
1720-E Blanks Press schedule -

1 Bring to contact - slow pressure,
2 Steam on - set clock -
3 Hydraulic pressure on - 2½ minutes after steam,
4 Steam off after 4 minutes more,
5 Remove from press warm,

Make 48 blanks send all to Miller -

7/27/17

1721-E



Drop test		Calipers Points
1.	20	.207
2	20	.216
3.	20	.207
4.	20	.202
5.	20	.221
6.	20	209
	120	

Edging Report

Edged OK	Re Edged	Misc
10	7	3
3	3	
	10	

100% OK

1721-E Blank Press Schedule -

1 Bring to contact - low pressure
2 Steam on - set clock.
3 Hydraulic pressure on 4 minutes after steam,
4 Steam off after 4 minutes more,
5 Remove from press warm,

Make 48 blanks - Send all records thru to Miller,

This experiment and several preceding - shows by drop test that the parallel cracks have nothing to do with the strength of the blank.

C131

7/27/17

1722-E

OK OK	x	OK OK	x		
		OK OK	x		
OK OK	x	OK OK	x		
		OK OK	x		
		OK OK	x		
		OK OK	x		
OK OK	x	OK OK	x		
OK OK	x				
OK OK	x	OK OK	x		
		OK OK	x		
Total 1		1			

53.8%

Drop test Calipers

1.	20	.222
2.	20	.211
3	20	.205
4	20	.223
5.	20	.207
6.	20	.215
	120 times	

Edging Report

Edged	Old	Re Edged	Dum
12	8	4	
4	3	1	
1	1		
	12		

100% OK

1722-E

Blanks Press Schedule -

1. Bring to contact - low pressure
2. Steam on - set clock.
3. Hydraulic pressure on 4 min after steam,
4. Steam off after three minutes more,
5. Remove from press warm,

Make 48 send all them to mills,

High drop test on this experiment and the two previous - and also other experiments with oil etc indicates some other change in powder - other than what is done in the experiments. 7/27/17 due to different wood flour - ?

7/27/17

1723-E

OK OK ×   OK OK ×   OK OK ×

Drop test		Caliper Point
1. ——	20	.232
2. ——	20	.215
3. ——	20	.239
4. ——	20	.218
5. ——	20	.232
6. ——	20	.231
	120	

83.3%

1723-E

Use the moulded perforated thin pad with American Felt Co Felt laid on top, Reg 1166 in every other respect.

7/28/1

1724-E

OK OK	x	OK OK	x	Drop test		Calipers Pen.	
FERNS		OK OK	x	1.	20	.210	
OK OK	x	OK OK	x	2.	20	.199	
OK OK	x	OK OK	x	3.	20	.193.1	
OK OK	x	OK OK	x	4.	20	.205	
OK OK	x	OK OK	x	5.	20	.196	
OK OK	x	OK OK	x	6.	20	.207	
OK OK	x	FERNS		120 tubes			
OK OK	x						
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
		OK OK	x				
OK OK	x	OK OK	x				

1724-E

Repeat 1712-E using atomizer to spray the oil into the mixer.

7/28/17

1725-E

OK OK	x	OK OK	x	Drop Test		Calibra Point
		OK OK	x	1	— 20	.211
		OK OK	x	2	— 20	.204
		OK OK	x	3	— 20	.199.1
		OK OK	x	4	— 17	.221
OK OK	x	OK OK	x	5	— 20	.213.1
		OK OK	x	6	— 3	.217
		OK OK	x		99 turns	
		OK OK	x			
OK OK	x	OK OK	x			
		OK OK	x			
OK OK	x	OK OK	x			
		OK OK	x			

66.6%

1725-E

Repeat 1717-E using atomizer to spray the oil into the cuvette

Knowlen

7/28/11

1726-E

	OK OK	x	Drop tests	Calibre Pressure
OK OK	x	OK OK	x	1 — 20	224.1
				2 — 13	199.1
				3 — 20	195
OK OK	x			4 — 20	203.1
OK OK	x	OK OK	x	5 — 4	212
				6 — 10	227
OK OK	x	OK OK	x	87 times	
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
		OK OK	x		
OK OK	x				
OK OK	x				

75%

1726-E

Make one drier full of 1666-E powder regular except add 18 pounds Istraw oil to one drum of varnish.

Painter one [illegible]

C1411

7/28/11

1727-E

OK OK	x	OK OK	x	Drop test	Califco Pan
OK OK	x	OK OK	x	1. — 20	.201.1
				2. — 20	.193.1
OK OK	x	OK OK	x	3. — 20	.158
		OK OK	x	4. — 20	.205.1
				5. — 20	.210
				6. — 20	.199.1
OK OK	x	Bad Spot		120 times	
		OK OK	x		
		OK OK	x		
OK OK	x	OK OK	x		
		OK OK	x		
Bad Con Spot		OK OK	x		

1727-E

Repeat 1712 using large atomizer on compressed air,
300 lbs powder
3¼ lbs ~~[illegible]~~ Straw oil in atomizer — Run mixer 5 min after all oil is atomized,

7/38/17

1728-E

OK	x	OK	x			
		OK	x			
		OK	x			
OK	x	OK	x			
OK	x					
		OK	x			
OK	x	OK	x			
OK	x					
OK	x	OK	x			
OK	x	OK	x			
OK	x	OK	x			
OK	x	OK	x			
OK	x	OK	x			

Drop test		Calibrec Point
1	20	.209
2	12	.215
3	20	.208.1
4	20	.215
5	20	.199.1
6	20	.203
	112	times

8 3 30

1728-E

Repeat 1717-E except use large atomizer on compressed air
300 lbs powder
3 1/4 lbs Kerosene in atomizer
Run water 5 min after all oil is atomized.
Large Dry Minam.

[145]

7/30/17

1729-E

FERNS

Bad Spot

Bad Spot

Drop test	Caliper Point
1. — 20	.210
2. — 20	.213.1
3 — 16	.199.1
4. — 20	.225
5. — 20	.203.1
6. — 20	.223
116 turns	

133°C

1729-E

Same as 1724-E except use one pound light Machine oil — Blanks show up little concave

7/30/17.

1730-E

OK OK	x	OK OK	x		Drop test		Calibration
OK OK	x	OK OK	x	1	—	20	203.1
OK OK	x	OK OK	x	2	—	20	.216
OK OK	x	OK OK	x	3	—	20	.195.1
OK OK	x	OK OK	x	4	—	20	.232
OK OK	x	OK OK	x	5	—	20	.225
OK OK	x	OK OK	x	6	—	20	.212.1
OK OK	x	OK OK	x		120 times		
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x	OK OK	x				
OK OK	x						

95.8°

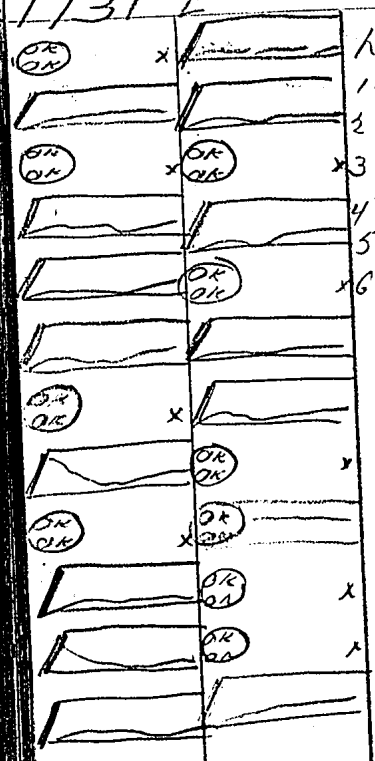
[redacted] 1730-E

Same as 1724-E except use one pound Oleic acid.

Blanks [illegible]

7/30/17.

1731-E



Drop test

1 — 20
2 — 10
3 — 20
4 — 20
5 — 2
6 — 20

92 times

1731-E

Same as 1724 except use one pound liquid carbolic acid. Use great care not to get burned with the spray and also watch the powder very carefully so that no one is burned with it.

7/30/17

1732-E

OK OK	x	OK OK	x	Drop test		Calipers Points	
OK OK	x	OK OK	x	1	—	20	.219.1
		OK OK	x	2	—	20	.233
OK OK	x			3	—	20	224.1
		OK OK	x	4	—	20	.220
				5	—	20	236
		OK OK	x	6	—	20	.227.1
OK OK	x					120	
OK OK	x	OK OK	x				
OK OK	x						
		OK OK	x				
OK OK	x						
OK OK	x	OK OK	x				
OK OK	x						
Bad Low Spot							
OK OK	x						

75%

1732-E
Repeat 1723 - make 500
blanks

497 records inspected.
49 rough spots.
18 low spots.
192 parallel c/ks
3 misel.
3 stain.
2 veneers.
2 misel.
2 P.O.
1 dent.
2 stain.
total 48% OK.

7/30/17

1733-E

	Drop test	Calipers Point
1	20	.220.1
2	20	.219
3	13	.221
4	4	.217.1
5	20	.210
6	10	.224.1
	87 turns	

68.5%

1733-E

Select 100 regular blanks that extract free – that show no signs of requiring great force to get them out,

CISST

7/30/11

1734-E

OK OK	x	OK OK	x
OK OK	x	OK OK	
OK OK	x		
		OK OK	x
OK	x		
OK OK	x		
OK OK	x	Ech (1) Blk	
		OK OK	x

41 6

Drap test

1	20
2	20
3	20
4	20
5	20
6	20
	120

1734-E 100 blanks.

Select the blanks that seem to stick in the moulds or show the greatest force required to extract at the same time that 1733-E are being selected –

7/30/11

1735-E

OK OK	×	
OK OK	×	
OK OK	×	
OK OK	×	
OK OK	×	
		OK OK ×
		OK OK ×
OK OK	×	
1 lb.		OK O.K. ×

37 5.0%

Drop test
1 — 20
2 — 20
3 — 11
4 — 17
5 — 20
6 — 20

108 times

1735-E

Make one drier full -
60 lbs wood -
40 lbs chalk -
12 lbs Rosin -
2 lbs gas black -
→ 60 lbs alcohol
make regular all them

16 bags - 12½ bags from grinder.

ground 76% 180 , 57% 350

7/30/17

1736-E

	Drop test	Coefficient
1	20	210.1
2	20	228.1
3	20	.229
4	10	231
5	20	219.1
6	20	.224.1
	110 turns	

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

OK OK x

45 8 0

1736-E

Same as 1735-E except Put wood flour and lampblack in mixer first. Mix 10 min then add gum Mix 10 min - Then add chalk Mix 10 min.

Make regular all three - after mixing.

16 bags before grinding.
11½ after grinding.
10 bags fine 1 bags tailings.

ground	76%	180
"	58%	350
Screened	98%	180
"	82%	350

CKT

7/30/17

1737-E

Drop test	Calipers
1. — 7	.215.1
2. — 20	.223.1
3. — 11	.227.1
4. — 15	.198
5. — 20	.212
6. — 20	.220

93 times

91.6%

1737-E

Same as 1666-E except mixed like 1736-E

14 bags before grinding 11 bags after grinding

after screening 1 bag tailings.

ground	78%	180	57%	350
Screened	98%	180	83%	350

1737-E Duplicate 7/31/17

68.5%

7/30/17

1738-E

			Drop test	Caliper Point
			1 — 20	.219
OK OK	x	OK OK x	2 — 20	.227
		OK OK	3 — 20	.231.1
OK OK	x		4 — 18	218.1
			5 — 4	.225
OK OK			6. — 20	.223.1
			102 tests	
		OK OK x		
OK OK	x			
OK OK	x	OK OK		
OK OK	x	OK OK x		
OK OK	x			

50%

Same proportions as 1666-E

1738-E Three large mixers made July 29-17

3 × 60 lbs wood flour 180 lbs

3 × 62 lbs gum (Varnish) 186 lbs (36 mine) (150 initial)

Mixed 10 minutes —

Add chalk thru 8 mesh screen. 150 36 120 6 342 3 minus 1026 lbs total

3 × 40 lbs — 120 lbs.

Mixed 10 min

Add lamp black 6 lbs.

Mixed 10 min —

Dry grind screen regular —

Mould varnish & print regular —

after July 30 this powder regular — but dried out 1508 schedule (2 hours)

7/31/17

1739-E

OK OK	x	OK OK	x	Snap Test	Caliper Point
OK OK	x	OK OK	x	1. — 20	223.1
OK OK	x			2. — 20	.228
				3. — 20	.231.1
OK OK	x	OK OK	x	4. — 20	.219
OK OK	x	OK OK	x	5. — 20	.210.1
OK OK	x	OK OK	x	6. — 20	.221
				120 times	
OK OK	x				
OK OK	x	OK OK	x		
OK OK	x	OK OK	x		
		OK OK	x		
OK OK	x	OK OK	x		
OK OK	x				

869

1739-E Dried only 1h 45m
otherwise same as 1738-E

522	eye inspected.
102	parallel cracks.
7	rough spots.
10	snaps.
8	stains.
8	miscellaneous.
135	total discards.

total 74% OK.

1740-E Powder regular 1738-E except ground in hot mill. (Selected when mill is hot.)

1741-E

1741-E Powder regular 1738-E except ground when mills are comparatively cool-

P.

510 records

	1 P.O.	Turned line 7 pins
	167 P.C.	1
	2 R.C	1 scratch
	4 Broken	
	5 stamps	2
Sy.	1 dent	
	5 low	
	5 image	2
	1 silver	
	24 rough spots	1
	215	7
	222 discards	
	288 OK	56.4% OK,

(17)

7/31/17

1742-E

		Drop test	
		1. — 14	.196
		2. — 20	.203.5
OK OK	×	3. — 20	.211
		4. — 20	.200
OK OK	×	5. — 10	.210
OK OK	×	6. — 5	.195
		89 times	
OK OK	×		

16.610

1742 E Bevel about 300 (regular 1666 Blanks) very slowly so that diamond takes a very small cut and runs no risk of straining the edge — Print 24 regular and send to Hilliar. Hold others for experiments.

1743-E Make 100 blanks 1738 powder
dried on 2 hour schedule
~~powder~~ Moulded regular —
Pressed 7 min with steam
air instead of 6 min —
Varnished and printed regular
Send 24 to Miller —

8/2/17

1744-E

OK OK	x	OK OK	x
		OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK Scr. 2		OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x		
OK OK	x		
OK OK	x		

95 4

2 Shown Marks [illegible]
Dummy bore size

Drop test		Caliper Point
1.	20	
2.	30	
3.	8	
4.	12	
5.	20	
6.	4	
	8 4 times	

1744-E Make one drier full of 1738 powder dried only one and a half hours.
Mould varnish and print regular but save powder for 100 blanks for 1745-E
send 24 records to miller
save 100 blanks for other experiments.

Print on 600 lbs pressure

8/2/17	8/3/17
266	489 records inspected.
42	70 Parallel cks.
7	9 Stains.
12	158 rough spots.
	3 miscellaneous.
15	8 snaps
1	17 low print.
	15 rough spots
	4 misc.
	9 rough spots.
2	25 low spots.
14	4 Miscellaneous.
2	dents
total 69 1/10 %	total 42 5/10 % OK

eye

machine.

5/2/1

1745-E

OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK Low 3		Chipped Edge	
Bad Low Spot		OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
OK OK	x	OK OK	x
Bad Low Spot		OK OK	x
OK Low 1		OK OK	x
OK OK	x	OK OK	x
Bad Low Spot			
Bad Low Spot		Bad Low Spot	

Drop test
1 — 5
2 — 20
3 — 20
4 — 20
5 — 20
6 — 20
105 times

75%

1745-E 100 blanks of 1744 powder moulded regular but pressed with steam air 7 minutes instead of 6 minutes.
Send 24 to Nibbler —
Save others for other experiments
Pointed on 600 lb pressure —

1745-E 125 lb steam pressure 5/2/1

Low Spot		Low Spot	
OK OK	x	OK OK	x
		Low Spot	
OK OK	x	Low Spot	
Low Spot			
Low Spot		Low Spot	
Low Spot		Low Spot	
Low Spot		Low Spot	
		Low Spot	
Low Spot		Low Spot	

Drop test
1. — 15
2. — 20
3. — 9
4. — 3
5. — 17
6. — 14
78 times

8 1/3 %

8/1/62

(OK OK) x	(OK OK) x	
(OK OK) x	(OK OK) x	20
(OK OK) x	(OK OK) x	20
(OK OK) x	(OK OK) x	13
	(OK OK) x	20
	(OK OK) x	20
(OK OK) x	(OK OK) x	20
	(OK OK) x	113 times
(OK OK) x	(OK OK) x	
(OK OK) x	(OK OK) x	
(OK OK) x	(OK OK) x	
(OK OK) x		
(OK OK) x		
(OK OK) x		

91.6

1746-E 1738-E dried 2 hours

Take about 300 lbs finished powder after final screen and mix for 30 minutes in Day mixer then mould immediately

188 Records 126 O.K.

67% O.K. 62 discard

- 24 Parallel O/Ls
- 1 radius
- 2 bruise
- 1 dent –
- 3 low spots
- 2 rough
- 5 silver
- 24 rough spots

188

1746-E Duplicate. 7

		Caliper Point
(OK OK) x	(OK OK) x	
(OK OK) x	(OK OK) x	.220
(OK OK) x	Low Spot	.198
(OK OK) x	Low Spot	.212
	Low Spot	.205
(OK OK) x	Low Spot	.201
OK Low Spot	(OK OK) x	.209
Low Spot	(OK OK) x	
Low Spot		
Low Spot	(OK OK) x	
Low Spot	(OK OK) x	
Low Spot	(OK OK) x	
50.%	58 1/3 %	

L181

1747-E

20	[illegible]	.019
20	226 / 210	.0[illegible]
20	226 / 202	.0[illegible]
20	231 / 216	.0[illegible]
20	226 / 212	.019
120	224 / 219	.021

edging report on 24 records
[illegible]% O.K.

100%

1747-E

Edge 24 blanks with very large bevel to make a sharp edge in center.

Varnish and print regular
send to Mills.

1748-E

				Drop test	Calipers	Points
OK OK	X	OK OK	X	1. — 1	[illegible]	[illegible]
OK OK	X	OK OK	X	2. — 4	[illegible]	[illegible]
				3. — 1	.234	[illegible]
OK OK	X	Low-Spot		4. — 1	[illegible]	[illegible]
OK OK	X	OK OK	X	5. — 1	.22575	[illegible]
				6. — 3	.231	[illegible]
OK OK	X	OK OK	X	10 times		
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
OK Low-Spot OK		OK OK	X			
OK OK	X	OK OK	X			
OK OK	X	OK OK	X			
102 %		91 2/3 %				

1748-E

57 wood
43 chalk
2 coarse blanch

Use same gum, mix, dry and make blanks same as 1738-E
Make one drier full.
Varnish and print regular
send 24 to miller and hold others until we see how the first 24 look.

1749-E

Print 100 records having steam on for 2 minutes longer time — Inspect for stains — etc and send detail report to Miller.

Report from Kennedy —

96 records 52 O.K.

44 discards { 19 parallel cfx.
2 snaps.
23 rough spots

96

54 1/10 % O.K.

Power Office 8/7/17
1746-E
600 lbs Blk Pressure
Angels Wards

8/13/17
500 lbs Bitu Pressure
1746-E

	Low Start	OK OK	OK OK
OK OK Cow Start	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
		OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	Stain
OK OK	OK OK		OK OK
OK OK		OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK	OK OK	OK OK	OK OK
OK OK		OK OK	OK OK
OK OK			
83%	75%	100%	91%
75%			

8/14/17
1746-E

	OK OK	
OK OK	OK OK	
OK OK	OK OK	
OK OK	OK OK	
OK OK	OK OK	
OK OK	OK OK	
OK OK	OK OK	
Cow Start	OK OK	
OK OK	OK OK	
OK OK	OK OK	
OK OK	OK OK	
OK OK	OK OK	
83%	100%	

Schedule of Operations
Record Press

1. Look press over and be sure it is clear.
2. Don't forget to Hook truck to press before entering moulds in press.
3. Line moulds up, and be sure there is a pipe in every Mould, and that there is nothing lying on Moulds, such as parts of moulds, clamps or pins which will dent moulds and platens of press.

4. Bring moulds up to Contact carefully and very slowly, needle first off pin.

5. Turn on Steam.

6. When mercury reaches line on thermometer (200°F) bring high pressure up very slowly and leave valve open.
7. Set your clock and let moulds rest on full steam and pressure for twelve (12) minutes; be sure to blow your press out when on steam after two (2) minutes, and again after six (6) more minutes for about one-half minute.
8. Turn off steam and let steam exhaust from press.
9. Turn on water.
10. When Moulds are cold, to truck, turn off cooling water, close finger pressure hydraulic valve, open up hydraulic exhaust valve to relax press.
11. Hook Truck to press, transfer moulds from press to truck. Do not turn Moulds out of press with one pull. Shift them in truck by hand, cutting moulds so as not to miss any as they will fall to the floor when taking the truck from the press.

Records sent to Robbins each day.

July	
16	7,[illegible]
17	14,255
18	15,037
19	13,520
20	13,[illegible]
21	4462
Sunday.	
22	7,076
24	5155
25	7112

Report on Output

	Flu. Stand	Ok.	%
14	15327	14,297	93.[illegible]
17	16,159	15,[illegible]	[illegible]
18	13626	13,753	94.[illegible]
19	14,753	14,306	96.[illegible]
20	12456	11947	95.[illegible]
21	5,926	5691	96.
Sunday			
23	5979	5611	95.[illegible]
24	[illegible]	8169	[illegible]

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